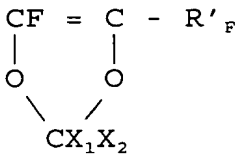
PERFLUORINATED POLYMERS

ABSTRACT

Amorphous perfluorinated homopolymers and copolymers of perfluorodioxoles of formula (IA):



(IA)

wherein R'_F is equal to R_F or OR_F wherein R_F is a linear or branched perfluoroalkyl radical having 1-5 carbon atoms; X_1 and X_2, equal to or different from each other, are F, CF_3; said polymers having a dioxole content ≥ 95% by moles, having the following property combination:

- Tg, measured according to the ASTM 3418 (DSC) method, from 180°C to 195°C;
- intrinsic viscosity, measured at the temperature of 30°C in perfluoroheptane (Galden® D80) according to the ASTM D 2857-87 method, from 13 cc/g to 100 cc/g.